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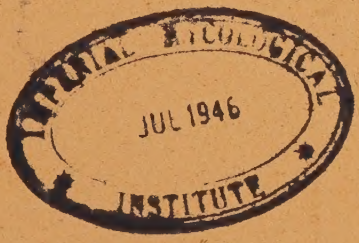

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BOOKS PRESENTED TO THE LIBRARY OF THE INTERNATIONAL INSTITUTE OF AGRICULTURE

Bidwell, P. W. The invisible tariff; a study of the control of imports into the United States. New York, Council on foreign relations, [1939]. IX, 286 p.

Bircher, B. M. [e] M. E. Bircher. Cibi di frutta e di verdure crude, 2ª ed. Milano, Sperlin & Kupfer, 1940. 71 p.

Börsen- und Wirtschaftskalender 1941, bearb. und hrsg. von der Frankfurter Zeitung. 78. Jg. Frankfurt am Main. Verlag der Frankfurter Societäts-Druckerei, [1941]. XVI, 192 p.

Brown, W. A. The international gold standard reinterpreted, 1914-1934, New York, National bureau of economic research, 1940. 2 v. (Publications of the National bureau of economic research, nº 37 [1-2].)

Butin, M. Polnisches Handbuch für Landwirte. 5. Aufl. Neudamm, J. Neumann, 1940. 60 p.

Catasto dei terreni; riforme, procedimenti di stima, reclami. Firenze, G. Barbèra, 1940. VIII, 158 p. (Biblioteca di cultura per i rurali, sotto gli auspici della R. Accademia dei Georgofili, v. 9.) [Articles de: Mario Bandini, Alessandro Brizi, Filippo Chiapperi, Tito Pestellini, Mario Tofani.]

Chapman, J. M. Commercial bank and consumer instalment credit by John M. Chapman and associates. [New York], National bureau of economic research, [1940]. xxiv, 318 p. (National bureau of economic research, New York. Financial research program. Studies in consumer instalment financing, nº 3).

Ciferri, R. Primo rapporto sul caffè nell'Africa Orientale italiana. Firenze, R. Istituto agronomico per l'Africa italiana, 1940. 93 p. (Relazioni e monografie agrario-coloniali. nº 60).

Congrès international d'agriculture tropicale. 8º Congresso internazionale di agricoltura tropicale e subtropicale, Tripoli, 1939. Roma, Federazione internazionale tecnici agricoli [1940]. 146 p. v. 1: Organizzazione e svolgimento del Congresso – Rapporti generali.

13ème Congrès international de médicine vétérinaire, Zurich-Interlaken (Suisse) 1938. v. 1,2. Berne, Imp. G. Grunau, [1939] 2 v.

Dittner, O. Landwirtschaft, Bergbau und Industrie des Kreises Spremberg; Grundlagen einer geographisch-wirtschaftlichen Heimatkunde. Frankfurt/Oder, Trowitzsch & Sohn, 1939. 208 p.

Dommaschk, H. Das Bezugscheinwesen der Ernährungswirtschaft; Erlass des Reichsministers für Ernährung und Landwirtschaft vom 20. Juni 1940 (II C 1-2750) nebst Einleitung und Erläuterungen. Berlin, Deutsche Verlagsgesellschaft, [1940]. 128 p.

Droandi, I. Il cammello; storia naturale, anatomia, fisiologia, zootecnia, patologia. Firenze, Istituto agricolo coloniale italiano, 1936. VIII, 856 p. (Biblioteca agraria coloniale).

Ente nazionale serico, Milano. Annuario della industria serica italiana. Elenco ditte (dati aggiornati a tutto il 31 dicembre 1939). Roma, [1940]. 238 p.

INTERNATIONAL BULLETIN
OF PLANT PROTECTION

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DISCOVERIES AND CURRENT EVENTS

RUMANIA.

Agricultural Parasiticides Authorized for Use in the Country *

The manufacture, sale and use of fungicides, insecticides, etc. are only allowed in Rumania if these products conform to the provisions of the Law regarding the organization and promotion of agriculture promulgated by Royal Decree No. 361 of March 19, 1937 and published in the *Moniturul Oficial*, Pt. I, No. 67 of March 22, 1937.

Chapter IV of this Law prescribes the dispositions relative to the verification of the products used for the control of plant diseases and pests.

The translation of the articles of this chapter is as follows:—

Art. 78. — The putting up for sale, import and use of products intended for use in the control of plant diseases and pests, other than those authorized by the Ministry of Agriculture and Domains, according to the provisions which will be laid down by the regulations of this Law are prohibited; their composition must correspond with the data given in the official analysis report.

The products will be analyzed exclusively in the laboratories of the Agricultural Research Institute of Rumania.

Art. 79. — Advertisements containing inexact statements regarding the analysis report and the results of experiments on the basis of which the Ministry of Agriculture and Domains authorized the putting up for sale of the product are prohibited.

Art. 80. — The officials authorized by the Ministry of Agriculture and Domains are empowered:—

(*a*) To inspect pharmacies, drug-shops, stores and warehouses having stocks of the products intended for use in the control of plant diseases and pests;

(*b*) To take samples of the products provided for in Art. 78, to seal them and forward them to the Plant Protection Service, with a view to ascertaining whether they conform to the formula and efficacy for which authorization was granted.

The authorized officials are empowered to confiscate any product found without the authorization stated in Art. 78; they will draw up a written report on the confiscation and will conform to the provisions laid down by the regulations of this Law.

* Communication from the official correspondent of the Institute, Prof. Dr TRAIAN SĂVULESCU, Chief of the Phytopathological Section at the Agricultural Research Institute of Rumania, Bucharest.

A LIST OF AGRICULTURAL PARASITICIDES AUTHORIZED FOR USE BY THE MINISTRY OF AGRICULTURE AND DOMAINS OF RUMANIA.

(In each category of the list the products are indicated in alphabetical order).

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
Products for seed treatment				
Wet method (soaking)				
Abavit-Nassbeize	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Bunt of wheat (*Tilletia tritici*)	100 g. in 100 l. water per 100 kg. seed	9
Bigriol	Uzinele Chimice şi Alimentare S. A., Oradea Mare, Hungary	*Id.*	0.25 per cent.	86
Ceresan-Nassbeize	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen, Germany	*Id.*	0.1 per cent.	87
Formol (Formaldehida, Formalina)	Margina Reşiţa, Distileriile de lemn unite, S. A. R., Timişoara, Rumania	*Id.*	10 l. of solution prepared per 100 kg. of seed (¼ kg. formol in 100 l. water)	10
Germisan	Fahlberg-List A.-G., Chem. Fabriken, Magdeburg Südost, Germany	Bunt of wheat, covered smut of barley (*Ustilago hordei*) and loose smut of oats (*U. avenae*)	0.1 per cent. per kg. of seed	2
Saramura "Florica"	Fabrica Florica F. Petrino, Craiova, Rumania	Bunt of wheat	400 g. per 2 hl. of seed	7
Uspulun-Universal	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	*Id.*	0.2 per cent., *i. e.*, 125 l. of solution per 500 kg. of seed	12

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Dry method (dusting)		
Abavit-26	Schering A.-G., Pflanzenschutzabteilung, Berlin N. 65	Bunt of wheat	300 g. per 100 kg. of seed	8
Abavit-Neu	*Id.*	Bunt of wheat, loose smut of oats, snow mould of cereals (*Fusarium nivale*) and barley stripe (*Helminthosporium gramineum*)	*Id.*	77
Abavit-26 R. U.	*Id.*	Bunt of wheat and ear cockles (*Tylenchus tritici*)	*Id.*	78
Antimălurin	Mărășești S. A. R. pentru industrii chimice, Bucharest	Bunt of wheat	*Id.*	81
Arzopol	Uzinele Chimice și Alimentare S. A., Oradea Mare	*Id.*	*Id.*	6
Arzopol C	*Id.*	*Id.*		
Cerealina "Caffaro"	Società Elettrica ed Elettrochimica del Caffaro, Milan, Italy	*Id.*	250-300 g. per 100 kg. of seed	68
			350-400 g. per 100 kg. of seed	4
Ceresan	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Bunt of wheat, bunt of rye (*Tilletia secalis*) and covered smut of barley	200 g. per 100 g. of seed; in the case of smuts of barley, 225 g. of the product per 100 kg. of seed	11
Cooper's Copper Carbonate	Cooper, McDougall & Robertson, Ltd., Berkhampstead, England	Bunt of wheat	300 g. per 100 kg. of seed	5
Germisan Universal-Trokenbeize	Fahlberg-List A.-G., Chem. Fabriken, Magdeburg Südost	Bunt of wheat, covered smut of barley and loose smut of oats	200 g. per 100 kg. of seed	107
Ortostan	Mărășești S. A. R. pentru industrii chimice, Bucharest	*Id.*	250 kg. per 100 kg. of seed	80

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Continued: Dry method (dusting)		
Porzol	Sanachimica, S. A. R., Bucharest	Bunt of wheat	300 g. per 100 kg. of seed	3
Tutan-Trocken-beize	Fahlberg-List A.-G., Chem. Fabriken, Magdeburg Südost	*Id.*	*Id.*	1
		Products for plant treatment		
		Copper mixtures		
Bordinette	Cooper, McDougall & Robertson, Ltd., Berkhampstead	Downy mildew of the vine (*Plasmopara viticola*)	According to purpose required	71
"Bouillie Schloesing"	Usines Schloesing Frères & Cie, Marseille, France	Downy mildew of the vine and potato blight (*Phytophthora infestans*)	*Id.*	74
Copper sulfate crist.	Mărășești S. A. R. pentru industrii chimice, Bucharest	Downy mildew of the vine, apple and pear scab (*Venturia*) and other cryptogamic diseases	As for Bordeaux mixture at 1-2 per cent. or as required	34
Copper sulfate crist.	"Phoenix", Fabrică de produce chimice, Baia Mare, Hungary	*Id.*	According to purpose required	53
Copper sulfate	"Timis", Industria Chimica S. A., Timisoara	*Id.*	*Id.*	82
Copper sulfate crist. "Zlatna"	Regia autonomă a Intreprinderilor miniere și metalurgice ale Statului din Ardeal, Bucharest	*Id.*	*Id.*	101

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Continued: Copper mixtures		
Cuprenox-lichid	Mărășești S. A. R. pentru industrii chimice, Bucharest	Downy mildew of the vine	1 per cent. solution without the addition of lime or any other substance	
"Ob. 21" Zeama cuprică "Bayer" conc. (Kupferkalk "Bayer" Konz).	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Downy mildew of the vine and potato blight	0.5 per cent. solution for downy mildew of the vine; 0.6 per cent. for potato blight. For fruit trees: (*a*) 0.25 per cent. solution before flowering; (*b*) 0.15 per cent. sol. after flowering	90
		Sulphur mixtures		
		(*a*) Containing colloidal sulphur		
Amonil	Uzinele Chimice și Alimentare S. A., Oradea Mare	Brown rot of fruits (*Sclerotinia*), leaf curl of peach (*Taphrina deformans*), powdery mildews (Erysiphaceae) of different plants	Winter treatment: 1.8-2 kg. of product per 100 l. of Bordeaux mixture or arsenical solution. Summer treatment: 250-500 g. of product per 100 l. of Bordaux mixture or arsenical solution	59
Erysit	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Vine mildew (*Uncinula necator*) and powdery mildews of different plants	1 per cent. solution	
Sulicoll	Oderberger Chem. Werke, Neu-Oderberg	Different cryptogamic diseases and certain insects hibernating on fruit trees	Winter treatment: 1 kg. of product per 500 l. of water Spring treatment: 1 kg. per 750 l. water	79
Sulipol	S. P. I. C.–S. A. R., Bucharest	Apple mildew (*Podosphaera leucotricha*), brown rot of fruits, apple scab (*Venturia inaequalis*) and pear scab (*V. pirina*)	5 per cent. of product mixed with spring water	104

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		(*b*) Polysulphides		
Pentasol (Calcium polysulphide 32° Bé.)	Dr. L. G. Synaf, Bucharest	Scale insects	At a concentration of 1 in 4 for winter treatment; 1 in 9 for spring treatment and 1 in 49 for summer treatment	26
Rusmicalcin-Rusca II	Jean P. Mavrojani, Galati, Rumania	Vine mildew, vine moth (*Clysia ambiguella*) and red spiders of fruit trees	1 part of the product to 3 parts of water in winter; 1 part to 30-50 parts water in summer; also recommended in the case of the vine, a 1 in 3 solution before budding	70
Solbar (Barium polysulphide)	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Diseases and pests of fruit trees	3 per cent. for treatment before budding: 1 per cent. for treatment after flowering	44
Sulfinette (Calcium polysulphide 32° Bé.)	Cooper, McDougall & Robertson, Ltd., Berkhampstead	*Id.*	5 per cent. concentration for winter treatment	45
		Stomach Insecticides		
		Arsenical compounds		
Aresin	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Vine moths (*C. ambiguella* and (*Polychrosis botrana*), phyllophagous insects of fruit trees and tobacco, lucerne caterpillars	In viticulture: 400 g. of product to 100 l. of solution In fruit arboriculture: 300 g. per 100 l. In agriculture: 400-500 g. per 100 l. For tobacco: 350-400 g. per 100 l.	56
Arsinette	Cooper, McDougall & Robertson, Ltd., Berkhampstead	Phyllophagous insects, caterpillars of fruit trees, vine and other cultivated plants	300 g. per 100 l. water or Bordeaux mixture	54

Product	Supplier	Diseases or pest controlled	Dose recommended	Sales authorization number
		Continued: Arsenical compounds		
Arsokoll	Oderberger Chem. Werke, Neu-Oderberg	Phyllophagous insects, caterpillars of fruit trees, the vine and other cultivated plants	1 kg. of product per 200 l. water	88
Arsola	Chinoin, Budapest, Hungary	*Id.* (excluding the apricot, peach and almond)	250 g. per 100 l. water or Bordeaux mixture	65
Arsola-Paste	*Id.*	Phyllophagous insects of fruit trees (excluding the apricot, peach and almond), as well as those which attack the sugar beet, forage beet, colza, flax, hemp and all gramineous plants	750 g. per 100 l. water	106
Cuproarsenical mixture "Schloesing"	Usines Schloesing Frères & Cie, Marseille	Downy mildew, vine moths, vine flea-beetle (*Haltica lythri* ssp. *ampelophaga*) and vine tortrix (*Sparganothis pilleriana*); apple and pear scab; Geometers	2-2.5 kg. per 100 l. water in viticulture; 1.5-2 kg. per 100 l. water in fruit arboriculture and horticulture	52
Darsin	Uzinele Chimice şi Alimentare S. A., Oradea Mare	Phyllophagous insects, caterpillars of fruit trees and the vine	250 g. per 100 l. water or Bordeaux mixture	55
Darsin pastă	*Id.*	*Id.*	1 kg. per 100 l. water	75
Lead arsenate	Chemische Fabrik I. E. Devrient, Hamburg, Germany	Phyllophagous insects, caterpillars of fruit trees, the vine and other cultivated plants	300-400 g. per 100 l. of water or Bordeaux mixture	
Nosprasen Neutral	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Downy mildew of the vine, grape red scald (*Pseudopeziza tracheiphila*), vine moths	0.75-1 per cent. in water	60

Product	Supplier	Disease or pest controlled	Dose recommended	Sales authorization number
		Continued: Arsenical compounds		
Nosprasit	"Bayer" I. G. Farbenindustrie A.-G., Abt. Pflanzenschutz, Leverkusen	Fruit tree pests	1 per cent. before flowering; 0.5-0.75 per cent. after flowering	91
Omidan R	S. P. I. C. – S. A. R., Bucharest	Phyllophagous insects, caterpillars of fruit trees	1st treatment: when the buds begin to swell, 1 kg. of the product, 500 g. copper sulphate and 400 g. quicklime per 100 l. water 2nd treatment: after flowering, 1 kg. of the product, 750 g. copper sulphate and 500 g. quicklime per 100 l. water 3rd treatment: 3-4 weeks after 2nd treatment; 1 kg. of product, 1 kg. copper sulphate and 600 g. quicklime per 100 l. water For the control of phyllophagous insects: 1 kg. of the product and 150 g. quicklime per 100 l. water	50
Schweininfurtergrün	Gademann & Co., Chemische Fabrik, Schweinfurt a. M	Phyllophagous insects and caterpillars of cultivated plants and fruit trees	One part of the product mixed with 6-8 parts of quicklime per 100 l. water For peach trees: 50 g. of the product with 450 g. quicklime per 100 l. water For apple trees: 100-210 g. of the product with 700 g. quicklime per 100 l. water For border trees and vines: 150-200 g. of the product with 1000 g. quicklime per 100 l. water For pear trees: 80 g. of the product with 500 g. quicklime per 100 l. water It may also be used as follows: 120-200 g. of the product per 100 l. 1 per cent. Bordeaux mixture	67

Product	Supplier	Diseases or pest controlled	Dose recommended	Sales authorization number
		Continued: Arsenical compounds		
Schweinfurtergrün (Paris Green, Emerald Green, Vert de Paris, Vert de Schweinfurt, Verde di Schweinfurt)	Drogheria "Standard", Bucharest	Phyllophagous insects and caterpillars of cultivated plants and fruit trees	See previous page	108
Spritz-Meritol	Schering A.-G., Pflanzenschutzabteilung, Berlin N 65	Phyllophagous insects in agriculture, fruit arboriculture and viticulture	400 g. per 100 l. water in agriculture; 250 g. per 100 l. water in fruit arboriculture and 400 g. per 100 l. water in viticulture	33
Uraniagrün	Pflanzenschutz G. m. b. H., Hamburg	*Id.*	*Id.*	85
Paris Green	Chemische Fabrik I. E. Devrient, Hamburg	*Id.*	*Id.*	51
Paris Green	I. D. Riedel – E. de Haën A.-G., Chem. Fabrik, Abt. Schädlingsbekampfung, Berlin-Britz	*Id.*	*Id.*	66
Paris Green "Mărășești"	Mărășești S. A. R. pentru industrii chimice, Bucharest	*Id.*	*Id.*	118
		Preparations based on nitroderivates		
Effusan	Schering. A.-G., Pflanzenschutzabteilung, Berlin N 65	Locusts (*Acrididae*)	By dusting before hopper bands and around oviposition areas	
		Phosphorus preparations		
Antigril	Uzinele Chimice și Alimentare S. A., Oradea Mare	Mole-cricket (*Gryllotalpa gryllotalpa*)	By dusting, 20-30 g. per square metre	103

(*to be continued*)

LEGISLATIVE AND ADMINISTRATIVE MEASURES

Germany. — By Ordinance of November 14, 1940 relative to compensation for damages suffered by viticulturists due to force majeure, a relief fund has been established. This fund will be raised by the contribution of one pfennig on every litre of wine sold by the producer. This fund is intended to compensate the unavoidable losses caused by hail, frost, diseases and pests and other enemies of the grape vine compromising the economic existence of the vine-grower. (*Nachrichtenblatt für den Deutschen Pflanzenschutzdienst*, Berlin, Anfang Januar 1941, 21. Jahrg., Nr. 1, S. 8).

*** Circular of November 20, 1940 regulates for the whole country the distribution of food products intended for use as bait in the control of animal pests. Distribution will be made through the intermediary of the supplies department. Certain products, in particular, fat, meat and bacon cannot be supplied for the purpose in question. (*Ibid.*, S. 7).

*** The official Notice of the Ministry of Agriculture, No. 47 of November 23, 1940, contains the rules regulating the assignment of parent plants, wild varieties and new varieties of any kind to private breeders by public institutions. (*Ibid.*, S. 7-8).

Argentine Republic. — Decree No. 71.553 of September 12, 1940 arrests the application of articles 9 and 10 of Decree No. 33.159 of December 20, 1933 regulating the control of grape phylloxera [*Phylloxera vastatrix*] and the transport of vines in the country. (*Diario Oficial de la República Argentina*, Buenos Aires, 14 de octubre de 1940, año XLVIII, núm. 13.850, págs [13685] y 13686).

Belgian Congo. — By Decree No. 3/Agri. of the Provincial Commissioner, Chief of the Province of Stanleyville, dated January 11, 1940, whosoever cultivates or causes to be cultivated cotton is obliged to uproot and destroy by fire or cause to be uprooted and destroyed by fire all cotton plantings on his land within the period determined as follows:—

(*a*) in the regions to the north of Uele-Bomokandi, before February 15;

(*b*) in the regions between Uele-Bomokandi and Aruwimi-Nepoko, before March 1;

(*c*) in the regions to the south of Aruwimi-Nepoko, before March 15.

Those concerned are also required to collect and burn within the period indicated above, all bolls and cotton plant trash lying on the fields. (*Bulletin Administratif du Congo Belge*, Léopoldville-Kalina, 25 février 1940, 29me année, nº 4, p. 169-170).

Italy. — Ministerial Decree of October 22, 1940 nominates the Commission entrusted with the proposals regarding the granting of State subsidies to proprietors of citrus groves having carried out compulsory control measures against scale insect infection. (*Bollettino Ufficiale del Ministero dell'Agricoltura e delle Foreste*, Roma, 21 gennaio 1941, anno XIII, n. 3, pp. 137-138).

*** Another Ministerial Decree of the same date nominates the Commission charged with the proposals regarding the granting of State subsidies to proprietors of citrus groves who carry out a rational control of 'mal secco' [*Deuterophoma tracheiphila*]. (*Ibid.*, pp. 138-139).

*** Ministerial Decree of November 30, 1940 makes control of the oriental peach moth (*Cydia molesta*) in the Provinces of Varese and Cuneo compulsory, control to be effected by removing shoots and branches remaining after pruning and infested fruits, and by any other methods indicated by the Royal Observatories of Phytopathology.

The Observatories of Milan and Turin will indicate the technical methods to be followed in carrying out control operations and will supervise their application, assisted by the provincial Divisions for plant diseases.

The horticultural and fruit Sections of Varese and Cuneo are in charge of the organization and supervision of control operations to be carried out by and at the expense of the proprietors and occupiers of peach groves in the said Provinces. These same Sections are also charged with the execution of control operations at the expense of infractors or persons delaying application of these measures. (*Ibid.*, 1-11 gennaio 1941, nn. 1-2, pp. 19-21).

RECENT BIBLIOGRAPHY

ANNET, E. Note sur les dégâts causés aux bananiers par l'Heteronychus claudius. *Revue de Botanique appliquée et d'Agriculture tropicale*, Paris, 1940, 20e année, nº 222, p. 119-121.

ARRUDA, S. C. Antracnose e cancro das Anonaceas. *O Biologico*, S. Paulo, 1940, ano VI, n.º 8, pags. [224]-225.
[*Colletotrichum gloeosporioides* ?]

ASAN, Haydar. The use of vapors as fungicides against tobacco downy mildew. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 29-30, fig. 1.
[*Peronospora tabacina*].

ASAN, Haydar. L'emploi des vapeurs comme fongicides contre la moisissure duveteuse du tabac. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 31-32.
[A translation in French of article in English by same author, mentioned above].

ASAN, Haydar. Die Verwendung von gasförmigen Pilzvertilgungsmitteln zur Bekämpfung des Meltaus. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 33-34.
[A translation in German of article in English by same author, mentioned above].

BACHE-WIIG, Sara. Contributions to the life history of a systemic fungous parasite, Cryptomycina Pteridis. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 214-250, figs. 1-26. Literature cited, pp. 248-250.
[On *Pteridium latiusculum*].

BALBACH, H. Ueber das Vorkommen von Holzkernen im Mark der Weinrebe. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 150-159, Abb. 1-11. Literaturverzeichnis, S. 159.

BARBEY, Aug. Un ennemi du lierre. *Journal forestier suisse*, Berne, 1940, 91me année, nº 4, p. 82-84. 1 fig.
[*Arvicola arvalis*].

BARNES, H. F. Two new pests of apple and black currant. *Bulletin of Entomological Research*, London, 1940, Vol. 31, Pt. 1, pp. 85-87, pl. III. References, p. 87.
[*Contarinia mali* Barnes which attacks apple blossom in Japan, and *Dasyneura ribis* sp. n., injurious to black currant flowers in Finland].

BARNES, H. F. The gall midges attacking the seed-heads of cock's-foot, *Dactylis glomerata*, L. *Bulletin of Entomological Research*, London, 1940, Vol. 31, Pt. 1, pp. 111-[120], pls. IV-V. References. p. 119.
[Cecidomyidae].

BECKER, Günther. Beobachtungen über Schädlichkeit, Frass und Entwicklungsdauer von Anobium punctatum De Geer („Totenuhr"). *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 159-172, Abb. 1-6. Schrifttum. S. 171-172.

BENASSI, Luigi. La lotta contro la processionaria del pino. *La Rivista Forestale Italiana*, Roma, 1940, anno II, n. 4, pp. 21-26, 4 figg.
[*Thaumetopoea pityocampa*].

BEST, Rupert J. Some effects of salicylate on plant viruses. *Nature*, London, 1940, Vol. 145, No. 3677, pp. 627-628, 1 graph.

BIANCHI, F. A. Notes on the role of the self-introduced insects in the economic entomology of Hawaii. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 377-388.

BOSELLI, F. B. Un problema fitopatologico fondamentale per la Sardegna: impedire l'introduzione di nuovi parassiti delle piante. *L'Agricoltura Sarda*, Cagliari, 1940, anno XIX, n. 4, pp. [97]-103.

CALLAN, E. McC. Hymenopterous parasites of willow insects. *Bulletin of Entomological Research*, London, 1940, Vol. 31, Pt. 1, pp. 35-44, figs. 1-2. References, pp. 43-44.
[Eight Ichneumonoidea, fourteen Chalcidoidea and six Proctotrupoidea are recorded as parasites of willow insects].

CALLAN, E. McC. Some economic aspects of the gall midges (Diptera, Cecidomyidae) with special reference to the West Indies. *Tropical Agriculture*, Trinidad, B. W. I., 1940, Vol. XVII, No. 4, pp. 63-66. References, p. 66.
[Species of economic importance in the West Indies:— *Contarinia gossypii*, *C. lycopersici*, *C. sorghicola*, *Porricondyla gossypii*, *Iatrophobia brasiliensis*, *Asynapta citrinae*, *A. mangiferae*, *Erosomyia mangiferae*].

CANDURA, G[iuseppe] S[alvatore]. Ricerche fitopatologiche e agrarie su la calciocianamide. Contributi 1-3. Bolzano, Licinio Cappelli, 1941, 16 pp., 10 figg. (Pubblicazioni pratiche di Fitopatologia e Igiene, n. 5). L. 2.
[Contains:—
I contributo. — Esperienze per conoscere il meccanismo d'azione della calciocianamide contro gl'insetti.
II contributo. — Esperienze con calciocianamide speciale quasi pura e con gas ammoniacale.
III contributo. — Esperienze con calciocianamide grezza, con l'acetilene e di alcune applicazioni].

CARPENTER, C. W. A chytrid in relation to chlorotic streak disease of sugar-cane. *Science*, Lancaster, Pa., 1940, New Series, Vol. 91, No. 2364, pgs. 382-283.

CASANUEVA R., J. Manuel. Una enfermedad que interesa conocer a los agricultores de esta zona. – " El carbón del trigo ". *Agricultura Austral*, Osorno-Chile, 1940, año VI, nº 85, págs. 2375 y 2376.
[*Ustilago tritici*].

CHANDLER, P. Some obnoxious weeds of resting lands in Uganda. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda, and Zanzibar*, Amani, 1940, Vol. V, No. 5, pp. 372-375.
[*Digitaria scalarum, Oxalis* sp., *Commelina* sp., *Portulaca quadrifida, P. oleracea, Euphorbia heterophylla, E. hirta, E. prostrata, Bidens pilosa, Galinsoga parviflora, Cissus* sp., *Mariscus* sp.].

CHARDON, Carlos E., MILLER, Julian H., and MULLER, Albert S. Ascomycetes from the State of Minas Geraes (Brazil). *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 172-204, figs. 1-34.
[The present paper lists 114 species, 21 of which are described as new].

CONSTANTINESCU, Aur. Efectele iernii grele din anul 1939-40. *Revista Pădurilor*, Bucureşti, 1940, an. 52, nr. 3, pag. 173-174, 2 fig.
[In Rumanian, with titles in German and French and summary also in French:— 'Die Nachwirkungen des strengen Winters vom Jahre 1939/40'. — 'Les effets de l'hiver exceptionnel de 1939-40'].

CORNU, C. Bouillies cupriques fraîches. *Le Progrès Agricole et Viticole*, Montpellier, 1940, 61e année, nº 15, p. 289-291; nº 16, p. 313-316; nº 17, p. 336-339.

CORNU, Ch. Composés cupriques nouveaux (permutites, etc.). *Le Progrès Agricole et Viticole*, Montpellier, 1940, 61e année, nº 14, p. 269-272.

COURAULT, Pablo A. Observaciones sobre la foliocelosis de los citrus en la Provincia de Santa Fé. *Boletín de Agricultura y Ganadería*, Córdoba, 1940, nº 175, págs. 13 a 16.
[A disease of undetermined origin].

CRAIGIE, J. H. Studies in cereal diseases. XII. Stem rust of cereals. *Dominion of Canada, Department of Agriculture, Pubblication 666, Farmers' Bulletin 84*, Ottawa, Canada, 1940, 39 pp., 26 figs. Useful references to stem-rust literature, pp. 38-39.
[*Puccinia graminis*].

DA FONSECA, J. P. Ataques de cupins a plantações de eucalipto. *O Biologico*, S. Paulo, 1940, ano VI, nº 8, pags. 222-223.
[*Synthermes insidians*].

DAVIS, B. H. A new Cercospora on Lippia cardiostegia. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 170-171, figs. 1-5.
[*Cercospora cardiostegiae* sp. nov. Latin diagnosis].

DAXER, H., und STELLWAAG, F. Aktivierung geringer Mengen von Darmgiften durch Zusätze. *Anzeiger für Schädlingskunde*, Berlin 1940, XVI. Jahrg., Heft 3, S. [25]-32. Schrifttum, S. 32.

DECOUX, Georges J. Infections et pourritures des agrumes pendant la récolte et la manipulation jusqu'au marché. *La Revue Française de l'Oranger*, Casablanca, 1939, 9me année, nº 100, p. 239-241.

DICKER, G. H. L. The biology of the Rubus aphides. *The Journal of Pomology and Horticultural Science*, London, 1940, Vol. XVIII, No. 1, pp. 1-33, figs. 1-2, 1 pl. References, pp. 31-32.
[*Macrosiphum rubiellum, M. rubifolium, M. cyparissiae, M. gei, Amphorophora rubi, Aphis idaei*, an unnamed species provisionally described as closely allied to *A. urticaria*; *Myzus convolvuli, M. chelidonii, M. ornatus, Pemphigus rubiradicis*].

DOIDGE, E. M. South African rust fungi, III. *Bothalia*, Pretoria, 1939, Vol. III, Pt. 4, pp. [487]-512, figs. 1-37.

EHRENHARDT, H. Untersuchungen über den Einfluss der Zehrwespe *Aphelinus mali* Hald. auf den Massenwechsel der Blutlaus unter Berücksichtigung der biologischen Bekämpfung der Blutlaus. *Arbeiten über physiologische und angewandte Entomologie aus Berlin-Dahlem*, Berlin-Dahlem 1940, Bd. 7, Nr. 1, S. 1-41, Fig. 1-3. Schrifttum, S. 39-41.
[*A. mali* and *Eriosoma lanigerum*].

EICHLER, Wolfdietrich. Brotkäfer als Schädling, insbesondere als Holzzerstörer. *Mitteilungen der Gesellschaft für Vorratsschutz E. V., Berlin-Steglitz*, Berlin 1940, 16. Jahrg., Nr. 4, S. 46-37, 1 Abb.
[*Sitodrepa panicea*].

ENDÔ, Kazue. Outbreaks of *Agrotis ypsilon* Rottenburg in Karahuto (Saghaliens in 1939. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 5, pp. [219]-221.
[In Japanese, with title also in English].

ENDÔ, Kazue. *Cirphis unipuncta* Haworth broke out in 1939 for the first time in Karahuto (Saghalien). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 6, pp. 260-261, 1 fig.
[In Japanese, with title also in English].

ESAKI, Teiso. *Saissetia nigra* (Nietner) found in southern Kyûsyû. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. I, No. 5, pp. [226]-228, figs. 1-2.
[In Japanese, with title also in English].

ESAKI, Teiso. Injurious insects to coconut palm in the Mandated South Sea Islands of Japan. I. *Furcaspis oceanica* Lindinger. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 1, pp. [1]-13, figs. 1-5, pls. 1-2.
[In Japanese, with title also in English].

EVANS, J. W. The cabbage moth. *The Tasmanian Journal of Agriculture*, Hobart, 1940, Vol. XI, No. 1, pp. 42-43, figs. I-III
[*Plutella maculipennis*].

FERNIE, L. M. The rooting of softwood cuttings of Coffea arabica. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda, and Zanzibar*, Amani, 1940, Vol. V, No. 5, pp. 323-329, figs. 1-3.
[Pests and diseases:— *Physothrips xanthoceros, Lecanium viride, Leucoptera* sp., *Aphis* sp., *Hemileia vastatrix, Rhizoctonia* sp.].

FEYTAUD, J., et DE LAPPARENT, P. Influence de la température sur le pouvoir insecticide des poudres roténonées. *Comptes rendus hebdomadaires des séances de l'Académie d'Agriculture de France*, Paris, 1940, tome XXVI, nº 11, p. 408-412.

FRANCO, Jacques D. Une nouvelle méthode de lutte contre l'*Anarsia lineatella* in Italie. *Revue Horticole*, Paris, 1940, 112e année, nº 2073, p. 171.

FRANÇOIS, Elm. Un ennemi du giroflier à Madagascar. *Revue de Botanique appliquée et d'Agriculture tropicale*, Paris, 1940, 20e année, nº 222, p. 116-117.
[Probably a moth, *Xyleutes cretaceus*].

FRANZ, Jost. Phasenwechsel und Massenwechsel bei Wanderheuschrecken. Ein Sammelbericht über neueres Schrifttum. *Zeitschrift für angewandte Entomologie*, Berlin 1940, Bd. XXVI, Heft 4, S. [664]-673. Schrifttum, S. 671-673.

FRICKHINGER, H. W. Zur Amselfrage. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 188-191.
[*Turdus merula*].

FUJIMAKI, Yukio. Retrospection of the time when the plant quarantine law was enacted. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 1, pp. [22]-23.
[In Japanese, with title also in English].

FULLAWAY, D. T. A new egg-parasite of the taro leafhopper. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 411-412.
[*Ootetrastichus megameli* sp. n. reared from eggs of *Megamelus proserpina*. English description].

GALLESE, Guido. La seta della processionaria del pino. *Textilia*, Milano, 1940, anno XVI, n. 12, pp. 495-496, figg. 1-3. Bibliografia, p. 496.
[The attempt to utilize the fibre obtained from nests of *Thaumetopoea pityocampa* was not successful, and even if it were so would not compensate for the heavy damage caused by this moth].

GARBER, Kurt. Hagel-und Pilzschäden an Fasernesselstengeln. *Faserforschung*, Leipzig 1940, 15. Bd., 1. Heft., S. 38-40, Abb. 1-4. Literaturverzeichnis, S. 40.

GEORGI, C. D. V., and TEIK, Gunn Lay. Further experiments with selected plants of *Derris elliptica*. Changi No. 3. *The Malayan Agricultural Journal*, Kuala Lumpur, 1940, Vol. XXVIII, No. 2, pp. 44-68. References, p. 68.

GHIMPU, V. Diseases and insects harmful to tobacco in Rumania. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 106-107.

GHIMPU, V. Les maladies et les insectes nuisibles au tabac en Roumanie. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 108-109.
[A translation in French of the article in English by the same author, mentioned above].

GHIMPU, V. Die Krankheiten und die Schädlinge des Tabaks in Rumänien. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 100-111.
[A translation in German of the article in French by the same author, mentioned above].

GHIMPU, V. About the struggle against tobacco diseases and enemies. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 112.

GHIMPU, V. Sur la lutte contre les maladies et ennemis du tabac. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 113.
[A translation in French of the note in English by the same author, mentioned above].

GHIMPU, V. Über die Bekämpfung der Tabakkrankheiten und Schädlinge. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 114.
[A translation in German of the note in English by the same author, mentioned above].

GHIMPU, V. About some fungicides and insecticides. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 115-116.

GHIMPU, V. Sur quelques fungi- et insecticides. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 117-118.
[A translation in French of the note in English by the same author, mentioned above].

GHIMPU, V. Über einige Pilz-und Insekten tötende Mittel. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 119-120.
[A translation in German of the note in English by the same author, mentioned above].

GOIDÀNICH, G[abriele]. La " necrosi corticale " del pioppo causata da *Chondroplea populea* (Sacc. et Br.) Kleb. *Cellulosa*, Roma, 1940, anno IV, n. 5, pp. 257-283. tav. I-II, figg. 1-24. Bibliografia, p. 283.

GONÇALVES-SILVA, S. A ferrugem branca das Cruciferas. *O Biologico*, S. Paulo, 1940, ano VI, nº 8, pags. 225-226.
[*Albugo candida*].

HAASIS, Ferdinando W. The distribution of *Phytomonas sepedonica* in potato seed-piece plants and tubers, and its significance. *Bulletin of the Department of Agriculture, State of California*, Sacramento, California, 1940, Vol. XXIX, No. 1, pp. 16-20, figs. 1-4.

HADORN, Ch., [und] PEYER, E. Der Grind oder Mauch des Rebstockes. *Schweizerische Zeitschrift für Obst-und Weinbau*, Wädenswil 1941, 50. Jahrg., Nr. 1, S. 8-12, Abb. 1-2.
[*Pseudomonas tumefaciens*].

HAHN, Glenn Gardner. Dasyscyphae on conifers in North America. IV. Two new species on Douglas fir from the Pacific Coast. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 137-147, figs. 1-2. Literature cited, p. 147.
[*Dasyscypha pseudotsugae* sp. n. and *D. ciliata* sp. n. on *Pseudotsuga taxifolia*. Latin diagnoses].

HEIKERTINGER, Franz. Exakte Mimikryforschung und angewandte Entomologie. *Zeitschrift für angewandte Entomologie*, Berlin 1940, Bd. XXVI, Heft 4, S. [608]-623.

HEIM, Roger. Un Agaric rhizomorphique parasite des semis de quinquina en Haute-Guinée. *Revue de Botanique appliquée et d'Agriculture tropicale*, Paris, 1940, 20e année, nº 222, p. [77]-87, fig. 1, pl. III.
[Possibly a species of *Clitocybe*].

HOFMANN, Chr. Ein neues Kontaktstäubemittel („Nemotan") gegen Nonne (Lymantria monacha L.) und Kiefernspanner (Bupalus piniarius L.). *Zeitschrift für angewandte Entomologie*, Berlin 1940, Bd. XXVI, Heft 4, S. 679-681.

HOLDAWAY, F. G. Differential susceptibility of varieties of garden bean to oviposition by melon fly, Dacus cucurbitae Coq. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 421-422. References, p. 422.

HOLZ, W. Fortschritte in der Bekämpfung von Fusicladium dendriticum (Wallr.) Fckl. mit chemischen Mitteln in den Jahren 1936-1938 (II). *Forschungsdienst*, Berlin-Dahlem 1940, Bd. 9, Heft 3, S. 278-288. Schrifttum, S. 286-288.

HOOD, J. Douglas. Organothrips bianchii, a new Hawaiian thrips from taro. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 423-427, 5 figs.
[On *Colocasia antiquorum* var. *esculenta*].

HORI, Matsuji. A successful example of chemical control of *Chortophila flavopicta* Matsumura in Karahuto. (Saghalien). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 1, pp. [27]-30.
[In Japanese, with title also in English].

HOSSLI, Hans. Die gefährliche Weisstannenlaus, Dreyfusia nüsslini C. B. in höheren Lagen. *Schweizerische Zeitschrift für Forstwesen*, Bern 1940, 91. Jahrg., Nr. 4, S. 88-90.

IKEDA, Nobuyuki. Application of pyrethrin against the oriental peach moth, *Grapholitha molesta* Busck. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 3, pp. 120-121.
[In Japanese, with title also in English].

ISITANI, Hukunobu. The leaf-miners of barley and wheat found in the environs of Tôkyô. *Ōyō-kontyū*, Nisjgahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 3, pp. [101]-109, figs. 1-11.
In Japanese, with title also in English.— *Stomacrypeolus ambiguus, Phytomyza nigra, Cerodonta denticornis, Dizygomyza* sp. No. 1, *Dizygomyza* sp. No. 2, *Agromyza* sp.].

JANCKE, O., und ROESLER, R. Ueber die Wirkungsart und-Dauer von Berührungsgiften. I. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 134-142.

JENKINS, Anna E. Taphrina Carveri recently discovered in Missouri. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 266-267. fig. 1.
[On *Acer saccharinum*].

JOESSEL, P. H. Les traitements mixtes des arbres fruitiers dans la Basse-Vallée du Rhône. Etat actuel de la question. *Le Progrès Agricole et Viticole*, Montpellier, 1940, 61e année, nº 16, p. 322-325; nº 17, p. 339-343.

JONES, G. Howard, and SEIF EL-NASR, Abd El-Ghani. Control of smut diseases in Egypt with special reference to sowing depth and soil moisture. *Ministry of Agriculture, Egypt, Technical and Scientific Service (Plant Pathology Section), Bulletin No. 224*, Cairo, 1940, 46 pp., 10 graphs, 7 pls. References, pp. 45-46.
[*Urocystis tritici, Ustilago hordei, Tilletia foetens, Sphacelotheca sorghi*].

KABURAKI, Tokio. A rôle of the late Professor Sasaki in the introduction of pyrethrum into Nippon. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 2, p. [53].
[In Japanese, with title also in English].

KAMITÔ, Akira. The present state of imported insecticides, fungicides and raw material. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. 1, No. 1, pp. [24]-26.
[In Japanese, with title also in English].

KAWADA, Akira, and SUENAGA, Hajime. On the chestnut-bark miner, *Acrocercops* sp. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 5, pp. [192]-201, 2 pls.
[In Japanese, with title also in English].

KAWADA, Akira, and SUENAGA, Hajime. On the chestnut bark miner, *Acrocercops* sp. (2). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 6, pp. [240]-255, 4 graphs.
[In Japanese, with title also in English].

KEIL, Josef. Ein neuer Nährboden zu Keimversuchen mit Getreidepilzsporen (Ustilago avenae, U. tritici, U. hordei, Tilletia tritici und Helminthosporium gramineum). *Archiv für Mikrobiologie*, Berlin 1940, 11. Bd., 1. Heft, S. [85]-88, Abb. 1. Literatur, S. 88.

T. W. K. [KIRKPATRIK, T. W.]. A pest of Cinchona. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda, and Zanzibar*, Amani, 1940, Vol. V, No. 5, p. 337.
[*Deilephila nerii* on *Cinchona succirubra*].

KÔNO, Hiromichi. The framing of a chronology of outbreaks of injurious insects in agriculture and forestry is a necessity. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1938, Vol. I, No. 1, pp. [19]-21.
[In Japanese, with title also in English].

KORSCHEFSKY, R. Bestimmungstabelle der häufigsten deutschen Scarabaeidenlarven. *Arbeiten über physiologische und angewandte Entomologie aus Berlin-Dahlem*, Berlin-Dahlem 1940, Bd. 7, Nr. 1, S. 41-52, Taf. 1-3.

KOYAMA, Tosiatu. The life history of the rice-stem maggot (*Chlorops oryzae* Matsumura) occurring in Akita prefecture. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1938, Vol. I, No. 2, pp. [54]-50, figs. 1-5.
[In Japanese, with title also in English].

KOYAMA, Tosiatu. Structural characters and bionomics of *Paraluperodes suturalis nigrobilineatus* (Motsch.). *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. I, No. 4, pp. [169]-176, figs. 1-5.
[In Japanese, with title also in English].

KOYAMA, Tosiatu. Notes on the corn borer, *Pyrausta nubilalis* Hübner, in Akita prefecture. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1940, Vol. II, No. 5, pp. [202]-212, figs. 1-6.
[In Japanese, with title also in English].

KOYAMA, Tosiatu. On the hibernation of *Paraluperodes suturalis nigrobilineatus* (Motsch). *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1940, Vol. II, No. 6, pp. [256]-259.
[In Japanese, with title also in English].

KRATOCHVÍL, Josef. Veverka škůdcem borových mlazin. *Lesnická Práce*, Pisek 1940, roč. XIX, čis. 11.-12, str. 536-550, obr. 1-8.
[In Czech, with title and summary also in German: — 'Das Eichhörnchen als Schädling des jungen Kiefernwaldes'. — *Sciurus vulgaris*].

KUGLER, Walter F., y REMUSSI, Carlos. Algunas caracteristicas morfológicas, fitopatológicas y de resistencia a las heladas en variedades agrícolas de lino cultivadas en la Estación Experimental de Pergamino durante los años 1937 y 1938. "*Granos*" *Semilla selecta*, Buenos Aires, 1939, año III, nº 3, págs. 3 a 24, 1 lám.; nº 4, págs. 3 a 38, 1 lám. Bibliografía citada, pags. 33 y 34.
[With titles and summaries also in English and German:— 'Some morphological, phytopathological and frost-resistance characteristics observed on agricultural flax-varieties at the Experimental Station of Pergamino, during 1937 and 1938'. — 'Beobachtungen einiger morphologischen und phytopathologischen Eigenschaften und Widerstandsfähigkeit gegen Frost an landwirtschaftlichen Flachsorten welche in den Jahren 1937 und 1938 in der Versuchs-Anstalt von Pergamino angebaut wurden'. — *Fusarium lini*, *Melampsora lini*, *Septoria linicola*].

KURODA, Syunzô. Notes on *Anophia leucomelas* Linnaeus in Nagasaki prefecture. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. I, No. 5, pp. [216]-221, figs. 1-2.
[In Japanese, with title also in English].

KUWAYAMA, Satoru, and KANEKO, Zyunkiti. An outlook of extermination work of chafers, or scarabaeid beetles, in Nemuro and Kusiro districts of Hokkaidô in 1938. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II, No. 2, pp. [72]-76, figs. 1-2.
[In Japanese with title also in English].

KUWAYAMA, Satoru, YAMADA, Sinobu, and MORI, Yosio. Notes on *Prosena siberita*, Fabricius, a dipterous parasite of the chafer grubs in Hokkaidô. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II, No. 3, pp. [107]-110.
[In Japanese, with title also in English].

LANGE-DE LA CAMP, Maria. Blüteninfektionen mit Myzel von Ustilago tritici. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*, Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 142-150, Abb. 1-3.

LINFORD, M. B. Pineapple fruit injuries caused by larvae of the moths Ereunetis flavistriata and Pyroderces rileyi. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 437-445, figs. 1-9.

MAHEUX, Georges. Dégâts typiques du Paraclemensia acerifoliella Fitch dans les érablières. *La Revue d'Oka*, [La Trappe, P. Q., Canada], 1940, vol. XIV, nº 2, p. [41]-43. Bibliographie, p. 42-43.

MALENOTTI, Ettore. Studi su Piralide e Sesamia nel 1939. *L'Industria Saccarifera Italiana*, Genova, 1940, anno XXXIII, n. 4, pp. [115]-129, figg. 1-15. [*Pyrausta nubilalis* and *Sesamia cretica*].

MAMELI CALVINO, Eva. Effetti delle gelate dell'inverno 1939-40 sulle piante tropicali e subtropicali coltivate a Sanremo. *La Costa Azzurra Agricola-Floreale*, Sanremo, 1940, anno XX, nn. 3-4, pp. 33-35.

MARCHIONATTO, Juan B. La degeneración de la papa y los métodos aconsejados para su control. *Boletín de Agricultura y Ganadería*, Córdoba, 1940, nº 175, págs. 10 a 12.

MARTIN, H. The incorporation of direct with protective insecticides and fungicides. IV. The evaluation of the wetting and spreading properties of spray fluids. *The Journal of Pomology and Horticultural Science*, London, 1940, Vol. XVIII, No. 1, pp. 34-51. References, p. 51.

MATSUMOTO, Takaski. An unusual mode of transmission of a certain tobacco virus disease somewhat closely related to leaf curl or kroepoek. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 74-80, fig. 1-3.

MATSUMOTO, Takashi. Un mode étrange de transmission d'un certain virus qui provoque une maladie du tabac se rapprochant du " leaf curl " ou du " kroepoek ". *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 81-88, fig. 4-8. Littérature citée, p. 88.
[A translation in French of article in English by the same author, mentioned above].

MATSUMOTO, Takashi. Eine ungewöhnliche Art der Übertragung ein Tabakvirose, die dem „ leaf curl " oder „ kroepoek " verwandt ist. *Le Tabac*, Rome, 1940, 3e année, nos 1-2, p. 89-96, fig. 9-12.
[A translation in German of article in English by the same author, mentioned above].

MATSUMOTO, Takashi. Mites in relation to leaf curl-like tobacco disease. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 97, 1 fig.

MATSUMOTO, Takashi. Les mites en relation avec une maladie du tabac se rapprochant du " leaf-curl ". *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 98, 1 fig.
[A translation in French of note in English by the same author, mentioned above].

MATSUMOTO, Takashi. Die Milben als Ursache einer dem " leaf curl " nahestehenden Tabakkrankheit. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 99.
[A translation in German of note in English by the same author, mentioned above].

MATSUMOTO, Takashi, and TATEOKA, Ryosuke. Virus diseases of tobacco in Formosa. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 101-102, 1 fig. Literature cited, p. 102.

MATSUMOTO, Takashi, et TATEOKA, Ryosuke. Les maladies à virus du tabac à Formosa. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 102-103, 1 fig. Littérature citée, p. 103.
[A translation in French of note in English by same authors, mentioned above].

MATSUMOTO, Takashi, und TATEOKA, Ryosuke. Tabakvirosen in Formosa. *Le Tabac*, Rome, 1940, 3me année, nos 1-2, p. 104-105, 1 fig.
[A translation in German of note in English by same authors, mentioned above].

MELIS, Antonio. Contributo alla conoscenza del bombice del pino (*Dendrolimus pini* L.). " *Redia* ", Firenze. 1940, vol XXVI, pp. [73]-175, figg. I-XXXII, tav. IV-XXIII. Cenni bibliografici, pp. 168-171.

MEUCHE, Alfred. Auswinterungsschäden an Oelfrüchten im Winter 1938/39. *Zeitschrift für Planzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz,* Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 177-188, Abb. 1-15.

MILLER, N. C. E. Fruit flies. *The Malayan Agricultural Journal,* Kuala Lumpur, 1940, Vol. XXVIII, No. 3, pp. 112-121, pl. I. Reference, p. 121.
[*Chaetodacus ferrugineus, C. cucurbitae, C. caudatus, C. umbrosus*].

MIYAKE, Tosio. Bionomics of the bean weevils or Bruchids (Report I) with notes on structural characters of the important species of beetles found at the time when plants were quarantined. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 2, pp. [61]-70, 1 pl. [Bibliography], p. 70.
[In Japanese, with title also in English].

MIWA, Yushiro. On a leafminer of kaki-tree in Taiwan. *The Formosan Agricultural Review,* Taihoku, Taiwan, Nippon, 1940, Vol. 36, No. 2, pp. 184-186, figs. 1-3.
[In Japanese, with title also in English].

MIZUTANI, Yosikiyo. On *Oraesia emarginata* Fabricius. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 3, pp. [110]-113, figs. 1-2.
[In Japanese, with title also in English].

MOERICKE, V., und WINTER, G. Eine Virose des Blumenkohls in Deutschland. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz,* Stuttgart 1940, 50. Jahrg., Heft 3/4, S. 172-177, Abb. 1-4. Schrifttum, S. 176-177.

MONTEMARTINI, Luigi. Raggi ultravioletti e peronospora delle patate. *La Ricerca Scientifica ed il Progresso Tecnico nell'Economia Nazionale,* Roma, 1940, anno XI, n. 12, pp. 1002-1003.
[*Phytophthora infestans*].

MONTICELLI, F. Relazione sintetica dell'annata vinicola 1939 e le Stazioni di segnalazione antiperonosporica in provincia di Asti. *Il Coltivatore e Giornale Vinicolo Italiano,* Casal Monf., 1940, anno LXXXVI, n. 7, pp. 76-78.
[*Plasmopara viticola*].

MOORE, L. B. The structure and life-history of the root parasite *Dactylanthus taylori* Hook f. *The New Zealand Journal of Science and Technology,* B. General Section, Wellington, N. Z., 1940, Vol. XXI, No. 4 B, pp. 206-B-224B. figs. 1-35. References, p. 224B.

MORI, Nobuyoshi. On pear lace-bug, *Stephanitis nashi* Esaki et Takeya, found where plants were quarantined. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1939, Vol II, No. 1, pp. [35]-36.
[In Japanese, with title also in English].

MORIMOTO, Shôjirô. The host-selection of *Callosobruchus chinensis* L. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1939, Vol. I, No. 4, pp. [160]-168, 1 pl. [Bibliography], p. 168.
[In Japanese, with title also in English].

MORIYAMA, Tadamitsu. Studies on the lethal effects of insectides. Part I. The general results of previous experiments with derris upon the various species of insects. (4). *The Formosan Agricultural Review,* Taihoku, Taiwan, Nippon, 1940, Vol. 36, No. 2, pp. 136-171. [Bibliography], pp. 156-171.
[In Japanese, with title and summary also in English].

MURAMATSU, Kyôhei. *Chaetodacus dorsalis* Hendel found in plant quarantine inspection work in Nippon proper. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 1, pp. [25]-30.
[In Japanese, with title also in English].

NAREMATU, Itirobei, and KAKIZAKI, Tatuzirô. *Eriophyes sonare,* a serious pest of *Juniperus procumbens,* and its control measures. *Ōyō-kontyū,* Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, N. 5, pp. [213]-218, figs. 1-2.
[In Japanese, with title also in English].

NEU, W. Die Bekämpfung des Maikäfers mit dinitrokresolhaltigen Mitteln. *Forschungsdienst,* Berlin-Dahlem 1940, Bd. 9, Heft 4, S. 369-386. Schrifttum, S. 386.
[*Melolontha*].

NOLTE, Hans-Werner. Der Brotkäfer (Sitodrepa panicea) als Sammlungsschädling. *Mitteilungen der Gesellschaft für Vorratsschutz E. V., Berlin-Steglitz*, Berlin 1940, 16. Jahrg., Nr. 4, S. 44-46. Literatur, S. 46.

OKADA, Ichiji, und OIKE, Katsukiyo. Die Lebensweise einer Braconide, *Phanerotoma planifrons* (Nees), als ein Schmarotzer von *Grapholitha glycinivorella* Matsumura (Vorhersagung). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 4, pp. [137]-147, figs. 1-5 [Bibliography], p. 147.
[In Japanese, with title also in English].

OKAMOTO, Daizirō. Notes on the life history and control measures of *Odites ricinella* Stainton (Lep.), an apple-tree pest. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 3, pp. [93]-106, figs. 1-2.
[In Japanese, with title also in English.

OKAZAKI, Katsutarô. On the method of trapping the hibernating larvae of the rice borer, *Chilo simplex* Butler, and history of its application as a means of control. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 1, pp. [11]-18, figs. 1-2.
[In Japanese, with title also in English].

OKAZAKI, Katsutarô. On the bionomics of *Agromyza oryzella* Matsumura and laboratory tests of some insecticides against it. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1940, Vol. II, No. 4, pp. [148]-161, figs 1-3. [Bibliography], p. 166.
[In Japanese, with title also in English].

ONOE, Tetunosuche, and AKABORI, Jirô. Soybean flour as an substitute for calcium caseinate (1). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 2, pp. [71]-76, figs. 1-2.
[In Japanese, with title and summary also in English].

PAILLOT, André: Existence d'une septicémie à Spirochètes chez les chenilles de *Pieris brassicae*. *Comptes rendus hebdomadaires des séances de l'Academie des Sciences*, Paris, 1940, tome 210, nº 17, p. 615-616.
[*Spirochaeta pieridis* sp. n.].

PARI, S. Le possibilità agricole dell'A. O. I. L'indagine entomologica e la difesa delle colture. *Giornale di Agricoltura della Domenica*, Roma, 1940, anno L, n. 18, pp. [147]-148.

PARSCHE, F. Der Pflanzenschutz und seine Organization in Rümanien. Nach einem Vortrag von Prof. Dr. Tr. Savulescu, zusammengestellt von --. *Forschungsdienst*, Berlin-Dahlem 1940, Bd. 9, Heft 4, S. [307]-309.

PARSONS, F. S. Investigations on the cotton bollworm, *Heliothis armigera*, Hübn. (*obsoleta*, Fabr.). Part II. The incidence of parasites on quantitative relation to bollworm populations in South Africa. *Bulletin of Entomological Research*, London, 1940, Vol. 31, Pt. I, pp. 89-109, figs. 1-4. References, p. 109.

PEACE, T. R. An interesting case of lightning damage to a group of trees. *Quarterly Journal of Forestry*, London, 1940, Vol. XXXIV, No. 2, pp. 61-63.

PEGLION, Vittorio. La lotta contro la peronospora della vite oggi e.... venti anni fa. *Giornale di Agricoltura della Domenica*, Roma, 1940, anno L, n. 18, p. [147]. [*Plasmopara viticola*].

PESCOTT, R. T. M. Insect pests of tomatoes – Control measures. *The Journal of the Department of Agriculture, Victoria, Australia*, Melburne, 1940, Vol. XXXVIII, Pt. 3, pp. 140-152, figs. 1-19. References, p. 152.
[Noctuidae, *Listroderes costirostris*, *Phthorimaea plaesiosema*, *Epilachna 28-punctata*, *Nezara viridula*, *Nysius vinitor*, *Thrips imaginis*, *Heliothis obsoleta*, *Lonchaea aurea*, *Phyllocoptes lycopersici*, *Trialeurodes vaporariorum*].

PETERSEN, Nis. Was muss der praktische Landwirt von der Wissenschaft der Virusforschung wissen ? *Wiener Landwirtschaftliche Zeitung*, Wien 1940, 90. Jahrg., Nr. 13, S. [77]-78.

PLANT QUARANTINE SERVICE, YOKOHAMA CUSTOM HOUSE. On the white apple leaf hopper. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939. Vol. I, No. 5, pp. 233-235, fig. 1. [Bibliography], p. 235.
[In Japanese, with title also in English. — *Typhlocyba pomaria*].

RADA, Germán García. El mosaico del tabaco. *La Vida Agrícola*, Lima-Perú, 1940, vol. XVII, nº 195, págs [171] a 173.

RAY, W. Winfield. A new species of Taphrina on alder. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp. 155-158, figs. 1-2. Literature cited, p. 158.
[*Taphrina macrophylla* sp. n. on *Alnus rubra*. Latin diagnosis].

RAY, W. Winfield. A new Cercospora from Oklahoma. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, p. 271.
[*Cercospora laburni* sp. n. on *Laburnum anagyroides*. With a Latin diagnosis].

REID, Jr., W. J., WRIGHT, R. C., and PEACOCK, W. M. Prevention of damage by the seed-corn maggot to potato seed pieces. *United States Department of Agriculture, Technical Bulletin No. 719*, Washington, D. C., 1940, 37 pp., 4 figs. Literature cited, pp. 35-37.
[*Hylemyia cilicrura*].

REINMUTH, E. Zur Kleekrebsfrage. *Deutsche Landwirtschaftliche Presse*, Berlin 1940, 67. Jahrg., Nr. 12, S. 95, Abb. 151-152; Nr. 13, S. 103.
[*Sclerotinia trifoliorum*].

RICHTER, H. Eine einfache und billige Zerstäuberspritze für Infektionsversuche. *Der Züchter*, Berlin 1940, 12. Jahrg., Heft 4, S. 95-96, Abb. 1-2.

RIGGERT, Eberh. Beobachtungen und Untersuchungen über den Maikäferflug 1938 in Ostholstein. *Arbeiten über physiologische und angewandte Entomologie aus Berlin-Dahlem*, Berlin-Dahlem 1939, Bd. 6, Nr. 4, S. 367-378, Fig. 1-2; 1940, Bd. 7, Nr. 1, S. 59-66.
[*Melolontha*].

ROSELLA, Etienne. Traitements d'hiver des arbres fruitiers. *La Vie Agricole et Rurale*, Paris, 1940, 30e année, nº 1, p. 34-39.

RUDORF, W. Die Züchtung frostresistenter Obstsorten mit besonderer Berücksichtigung der Resistenz gegen Spätfrostschäden. *Forschungsdienst*, Berlin-Dahlem 1940, Bd. 9, Heft 3, S. 266-276, Abb. 1-12. Schrifttum, S. 276.

SAITO, Kôzô. Bionomics of *Asiates sanguinipennis* Blessig. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 3, pp. [114]-116, figs. 1-2.
[In Japanese, with title also in English].

SAKAI, Kiuma. An outline of extermination of *Schoenobius incertellus* Walker in Kagosima prefecture. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 2, pp. 77-79.
[In Japanese, with title also in English].

SAKAI, Kiuma. Outbreaks and control measures of *Anophia leucomelas* Linnaeus in Kagosima prefecture in 1938. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. I, No. 5, pp. [222]-225, figs. 1-2.
[In Japanese, with title also in English].

SAKAI, Kiuma. Comparison of the red scale (*Aonidiella aurantii* (Maskell)) and its allied species in Japan. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. II, No. 2, pp. [45]-62, figs. 1-5. [Bibliography], pp. 60-61.
[In Japanese, with title also in English].

SAKIMURA, K. and LINFORD, N. B. An annotated list of insects from Lanai. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 451-454.
[Pineapple fruit insects].

SAWA, Ryôzô, and TAMURA, Ichitarô. On *Serica orientalis* Motschulsky brocken out in a clearing in Ibaraki prefecture. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol II, No. 3, pp. [110]-113, figs. 1-4.
[In Japanese, with title and summary also in English].

SCHIMITSCHEK, Erwin. Beiträge zur Forstentomologie der Türkei III. Die Massenvermehrung des Ips sexdentatus Börner im Gebiete der orientalischen Fichte. [I. Teil]. *Zeitschrift für angewandte Entomologie*, Berlin 1940, Bd. XXVI, Heft 4, S. [545]-588, Abb. 1-25.

SECTION OF PLANT INDUSTRY, DEPARTMENT OF AGRICULTURE, MINISTRY OF AGRICULTURE AND FORESTRY, [JAPAN]. Import procedure of plant diseases, noxious insects and prohibited plants, with a list of the species of insects, the importation of which have been permitted heretofore. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 3, pp. [114]-122.
[In Japanese, with title also in English].

SECTION of PLANT INDUSTRY, DEPARTMENT of AGRICULTURE, MINISTRY of AGRICULTURE AND FORESTRY, [JAPAN]. The state of outbreaks of insects injurious to rice plants in 1938. (First report). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 3, pp. [113]-129.
[In Japanese, with title also in English].

SECTION of PLANT INDUSTRY, DEPARTMENT of AGRICULTURE, MINISTRY of AGRICULTURE AND FORESTRY, [JAPAN]. Inquiry into the distribution of the rice-stem maggot (*Chlorops oryzae* Matsumura). *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. 3, pp. [130-]131.
[In Japanese, with title also in English].

SECTION of PLANT INDUSTRY, DEPARTMENT of AGRICULTURE, MINISTRY of AGRICULTURA AND FORESTRY, [JAPAN]. Researches on injurious insects carried out by the prefectural agricultural experiment stations. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. I, No. 4, pp. [177]-187.
[In Japanese, with title also in English].

SECTION of PLANT INDUSTRY, DEPARTMENT of AGRICULTUnE, MINISTRY of AGRICULTURE AND FORESTRY, [JAPAN]. Propagation of *Rodolia cardinalis* in Nippon. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1939, Vol. I, No. 5, pp. [231]-233.
[In Japanese, with title also in English].

SEMENIUK, Wm. Physiologic races of *Ustilago hordei* (Pers.) K. and S. in Alberta. *Canadian Journal of Research*, Ottawa, 1940, Vol. 18, Sec. C, No. 3, pp. 76-78. References, p. 79.

SERVADEI, Antonio. Contributi alla conoscenza dell'entomofauna delle leguminose foraggere. I. *Apion apricans* Herbst. (*Col. Curculionidae*). "*Redia*", Firenze, 1940, vol. XXVI, pp. [177]-212, figg. I-XVIII, tav. XXIV-XXV.

SHIBUYA, Masatake. Local variation in the rate of parasitism of *Trichogramma japonicum* Ashmead, the egg parasite on the rice borer, *Chilo simplex* Butler, in its first emergence period. *Ōyō-kontyū*, Nisigahara, Takinogawa, Tōkyō, 1938, Vol. I, No. I, pp. [3]-10, figs. 1-3.
[In Japanese, with title also in English].

SIBILIA, Cesare. Nuovi studi sulla specializzazione fisiologica di *Puccinia graminis tritici* Erikss. et Henn. in Africa Orientale Italiana. *L'Agricoltura Coloniale*, Firenze, 1940, anno XXXIV, n. 4, pp. [145]-147.

SILVERSIDES, W. H. The rate and mode of penetration of herbicides. I. Copper nitrate solutions. *Scientific Agriculture*, Ottawa, 1940, Vol. XX, No. 7. pp 419-423. pl. I. References, p. 423.

SINDONI, A. La lotta contro il mal secco degli agrumi. La possibilità di resistenza del tipo "Monachello". *Giornale d'Italia Agricolo*, Roma, 1940, anno XXIII, n. 17, p. 2.
'The lemon variety 'Monachello' shows a very high resistance to 'mal secco' caused by' *Deuterophoma tracheiphila*].

SNAPP, Oliver I. The peach borer. How to prevent or lessen its ravages. *U. S. Department of Agriculture, Farmers' Bulletin No. 1246*, Washington, D. C., 1940, 13 pp., 10 figs.
[*Conopia exitiosa*].

SONAN, Jinhakn. On the life history and control measures of *Cifuna locuples* Walker (Lep. Liparidae), a bean pest. *The Formosan Agricultural Review*, Taihoku, Taiwan, Nippon, 1940, Vol. 36, No. 2, pp. 115-135; No. 3, pp. 236-248, 2 figs.
[In Japanese, with title also in English].

SPEYER, W. Beiträge zur Biologie des Kleinen Frostspanners (*Cheimatobia brumata* L.) VI. Mitteilung: Die Tachine *Monochaeta albicans* Fall als Parasit der Frostspannerraupen. *Arbeiten über physiologische und angewandte Entomologie aus Berlin-Dahlem*, Berlin-Dahlem 1940, Bd. 7, Nr. 1, S. 52-59, Fig. 1-6. Schriftenverzeichnis, S. 59.

SQUIRE, F. A. On the nature and origin of the diapause in *Platyedra gossypiella*, Saund *Bulletin of Entomological Research*, London, 1940, Vol. 31, Pt. 1, pp. [1]-6, fig. 1. References, pp. 5-6.

STAEHELIN, M. Une dangereuse maladie des sarments du framboisier. *Revue Horticole Suisse*, Châtelaine-Genève, 1940, 13e année, nº 5, p. 100-103, fig. 1-2.
[*Didymella applanata*].

STAUDENMAYER, Th., und STELLWAAG, F. Über die Wasserstoffionenkonzentration und das Pufferungsvermögen des Darmes von Clysia ambiguella, Polychrosis botrana und einigen renderen Insekten sowie ihres Futters. *Zeitschrift für angewandte Entomologie*, Berlin 1940, Bd. XXVI, Heft 4, S. [589]-607, Abb. 1-7. Schriftenverzeichnis, S 607.
[*Clysia ambiguella, Polychrosis botrana, Pieris brassicae, Vanessa urticae, Dixippus morosus, Tenebrio molitor, Cetonia* sp.].

SWEZEY, O. H. Melittobiopsis ereunetiphila Timberlake, an efficient parasite on the sugar cane bud worm in Hawaii. *Proceedings of the Hawaiian Entomological Society for the Year 1939*, Honolulu, Hawaii, 1940, Vol. X, No. 3, pp. 457-458.
[A parasite of *Ereunetis flavistriata*].

TAKAHASHI, Yûichi. On the occurrence of *Schoenobius incertellus* Walker in Mie-ken. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1938, Vol I. No. 1, pp. 30-31.
[In Japanese, with title also in English].

TAKAI, Masazirô. On the reaction of *Anomala cuprea* Hope to the lights of different wave lenghts. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II. No. 1, pp. [20]-24, fig. 1.
[In Japanese, with title also in English].

TAKEI, Sankiti, und TADA, Yasuzi. Quantitative Bestimmung der wirksame Bestandteile der Derriswurzel. II. Mitteilung. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1940, Vol. II, No. 5, pp. [185]-191.
[In Japanese, with title also in English].

TAMANUKI, Kôichi. Injury of firs done by bark-beetles broken out after wind-storm in 1936 in Karahuto (Saghalien). *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1940, Vol. III, No. 6, pp. 261-263, figs. 1-2.
[In Japanese, with title also in English. — *Ips typographus* f. *japonicus*, *Polygraphus proximus*].

TAMURA, Ichitarô. Flour of *Amorphophallus Koniac* is damaged by *Ptinus japonicus* Reitter. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. I, No. 5, pp. [229]-230. fig. 1.
[In Japanese, with title also in English].

TATEISI, Iwao. Notes on *Leptocorisa varicornis* Fabricius, a pest of the rice-plant in Hukuoka prefecture. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II, No. 2, pp. [37]-71, figs. 1-3. [Bibliography], p. 71.
[In Japanese, with title also in English].

THIEM, H. Über die Bedeutung der wilden Wirtspflanzen der Kirschfruchtfliege (*Rhagoletis cerasi* L.) für die Verbreitung und Bekämpfung des Schädlings. *Arbeiten über physiologische und angewandte Entomologie aus Berlin-Dahlem*, Berlin-Dahlem 1939, Bd. 6, Nr. 4, S. 350-359; 1940, Bd. 7, Nr. 1, S. 67-80, Fig. 1-2. Schrifttum, S. 80

THIEM, H. Über die bisherige Leistung der Maikäferbekämpfung mit staubförmigen Dinitro-ortho-kresol. *Forstwissenschaftliches Centralblatt*, Berlin 1940, 62. Jahrg., Heft 3, S. [49]-55.
[*Melolontha*].

THORPE, H. C. Pyrethrum breeding: a progress report. *The East African Agricultural Journal of Kenya, Tanganyika, Uganda, and Zanzibar*, Amani, 1940, Vol. V, No. 5, pp. 364-368. References, p. 368.

TRANZSCHEL, W., und LITWINOW, M. Die Rostpilze aus der Gattung Tranzschelia auf den Prunoideen. *Journal de Botanique*, Moscou-Leningrad, 1939, tome 24, nº 3, p. [247]-253, fig. 1. [Bibliographie], p. 252.
[In Russian, with title and summary also in German].

TSUCHIYAMA, Tatsno. Injury of wheat and oat done by the European corn borer, *Pyrausta nubilalis* Hübner, in Manchoukuo. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II, No. 3, pp. 122-123.
[In Japanese, with title also in English].

TUNSTALL, A. C. Notes on root diseases of tea in North East India. *Indian Tea Association, Tocklai Experimental Station, Memorandum No. 8*, Calcutta, 1940, 25 pp., 11 pls.
[*Ustulina zonata, Fomes lamaoensis, Sphaerostilbe repens, Botryodiplodia theobromae*, etc.].

UPHOF, J. C. Th. Stephanoderes hampei. Insecto dañino del grano de café. *El Café de el Salvador*, San Salvador, 1940, vol. X, nº 110, págs. 192 a 195, figs. 1-3.

VENTURI, Filippo. Contributi alla conoscenza dell'entomofauna delle Graminacee. VI. "*Redia*", Firenze, 1940, vol. XXVI, pp. [27]-70, figg. I-XVII, tav. I-III.
[Results of biological observations carried out in Tuscany and the Marches, Italy on the following insects harmful to gramineous species:— *Elachista gangabella, Parastictis secalis, Adopaea lineola, Haplodiplosis equestris, Agromyza* (*Domomyza*) *nivelpennis, Liriomyza flaveola, Atherigona quadripunctata*].

WELLBORN, Vera. Clorosis de los cafetos (amarillez de las hojas). *El Café de El Salvador*, San Salvador, 1940, vol. X, nº 110, págs. 187 a 191, figs. 1-2.

WESTGATE, W. A., and RAYNOR R. N. A new selective spray for the control of certain weeds. *University of California, College of Agriculture, Agricultural Experiment Station, Bulletin 634*, Berkeley, California, 1940, 36 pp., 16 figs.

R. W. [WIESMANN, R.]. Mittelmeerfruchtfliegen (Ceratitis capitata) in Kirschfliegen-Ködergefässen in der Au am Zürichsee. *Schweizerische Zeitschrift für Obst- und Weinbau*, Wädenswil 1941, 50. Jahrg., Nr. 1, S. 7-8.

WINTER, A. Gerhard. Untersuchungen über den Einfluss biotischer Faktoren auf die Infektion des Weizens durch Ophiobolus graminis. *Zeitschrift für Pflanzenkrankheiten (Pflanzenpathologie) und Pflanzenschutz*., Stuttgart 1940, 50. Jahrg., Heft 3/4, S. [113]-134. Schrifttum, S. 134.

WOLF, Frederick A. Cercospora leafspot of red bud. *Mycologia*, Lancaster, Pa., 1940, Vol. XXXII, No. 2, pp.129-136, figs. 1-11. Literature cited, p. 136.
[*Cercospora cercidicola*].

VON WEISS, Hubertus A. Beiträge zur Biologie und Bekämpfung wichtiger Ölfruchtschädlinge. Zur Biologie und Bekämpfung von *Ceutorrhynchus assimilis* Payk. und *Meligethes aeneus* Fbr. *Monographien zur angewandte Entomologie Nr. 14*, Berlin 1940, 131 S., 54 Abb. Literaturverzeichnis, S. 126-131.

YABUTA, Teijiro, and HAYASI, Takesi. Biochemical studies of "bakanae" fungus of rice. *Journal of the Imperial Agricultural Experiment Station*, Nisigahara, Tôkyô, Nippon, 1940, Vol. III, No. 3, pp. [365]-400, pls. LII-LVIII. Literature cited, pp. 393-394.
[In Japanese, with title and summary also in English. — *Gibberella fujikuroi*].

YAGI, Nobumasa. Determination of living and dead insects of Coccidae by the reaction of methylene blue. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1938, Vol. I, No. 1, pp. [1]-2.
[In Japanese, with title also in English].

YAGI, Nobumasa. On the fumigating operations of piled mulberry stems for pulp stuff. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939, Vol. II, No. 2 pp. [77]-78, figs. 1-2.
[In Japanese, with title also in English].

YAMASAKI, Tadakazu. Outbreaks of *Cephalonomia unipuncta* Haworth in Saitama prefecture. *Ôyô kontyû*. Nisigahara, Takinogawa, Tôkyô, 1938, Vol. I, No. 3, pp. 132]-134.
[In Japanese, with title also in English].

YAMASAKI, Tadakazu. The sweet potato is seriously damaged by *Acanthocoris sordidus* Thunberg. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939 Vol. I, No. 5, pp. 237-238.
[In Japanese, with title also in English].

YASHIRO, Hirotaka. Notes on *Anophia leucomelas* Linnaeus, a pest of the sweet potato. I. *Ôyô-kontyû*, Nisigahara, Takinogawa, Tôkyô, 1939. Vol. I, No. 5, pp. [202]-215, figs. 1-4.
[In Japanese, with title also in English].

Prof. Ugo PAPI, *Segretario generale dell'Istituto, Direttore responsabile.*

PRINTING OFFICE CARLO COLOMBO — ROME, MARCH 14, 1941.

Etats Unis. National resources committee. Pacific Northwest regional planning commission. Forest resources of the Pacific Northwest. Washington, Govt. printing office, 1938. VII, 86 p.

Fischer, A. Heimat und Verbreitung der gärtnerischen Kulturpflanzen. Stuttgart, E. Ulmer, [1939]. v. 2. Gemüse und Zierpflanzen. 90 p.

Fortschritte der Botanik hrsg. von Fritz von Wettstein. 9. Bd. Berlin, J. Springer, 1940. IV, 474 p.

Friese, H. Gewinnbringende Entenmast. Berlin, F. Pfenningstorff, [1940]. 81 p.

Geographische Gesellschaft in Hamburg. Mitteilungen. Bd. 47. Hamburg, Friederichsen, de Gruyter & Co., 1941. 417 p.

Giovannozzi, M. La fermentazione dei tabacchi. Roma, Tip. F. Centenari, 1940. 180 p. (Ente nazionale per il tabacco).

Gresky, W. Eduard. Petzold, der Geisteserbe des Fürsten Pückler als Hofgärtner in Ettersburg und Weimar. Erfurt, K. Stenger, 1940. 122 p. (Sonderschriften der Akademie gemeinnütziger Wissenschaften zu Erfurt, Hft. 13.)

Heupel, W. E. Der sizilische Grosshof unter Kaiser Friedrich II; eine verwaltungsgeschichtliche Studie. Leipzig, K. W. Hiersemann, 1940. XII, 154 p. (Schriften des Reichsinstituts für ältere deutsche Geschichtskunde. Monumenta Germaniae historica nº 4).

Highland and agricultural society of Scotland. Transactions. 5th Series. v. 52, Edinburgh, W. Blackwood & sons, 1940, 409, 97 p.

Hoyningen-Huene, P. F. Freiherr von. Die niedersächsischen Böden; Erläuterungen zum Bodenkundlichen Atlas von Niedersachsen. Oldenburg, G. Stalling, 1939. 158 p. (Bodenkundlicher Atlas von Niedersachsen, Teil 2. Textband.) (Wirtschaftswissenschaftliche Gesellschaft zum Studium Niedersachsens. Veröffentlichungen. Reihe B, Hft. 17.)

Hyckel, G. Die deutsche Besiedlung des Ratiborer Landes. Gleiwitz, Gauverlag NS Schlesien, 1939. 96 p.

Jahrbuch, für die Obst- und Gemüse Verwertungs-Industrie. 18. Jg. Braunschweig, Verlag E. Appelhans & Co., [1941]. 164 p.

Kühner, M. Die Verfahrensvorschriften des Reichsministers für Ernährung und Landwirtschaft für die Neubildung deutschen Bauerntums. 2. Auflage nach dem Stand vom 1. Juli 1940. Berlin, Deutsche Landbuchhandlung, 1940. [10], 54 p.

Landøkonomisk aarbog for 1941. 42 aargang. København, Nordisk forlag; 1941. XXXVI, 221 p.

Laur, E. Landwirtschaftliche Buchhaltung für bäuerliche Verhältnisse, 2. Aufl. Aarau, Wirz & Cie., 1940. [4], 184 p.

Milk research council, New York. Milk drinking habits among young people; a psychological study made co-operatively by the Milk research council and the University of Newark research centre. [New York, 1938]. 105 f., [8] p.

Moldoveanu, C. Die grossen Agrarreformen seit dem Weltkriege; bibliographischer Beitrag. [București], Institutul de arte grafice « Cartea de aur », 1939. 127 p.

Pacheco, H. M. Agriculture in Guatemala. Washington, 1939. 43 f. (Pan American union. Division of agricultural cooperation).

Petersen, P. Der Bauer und die sozialen Fragen der Zeit. Berlin, Reichsnährstand Verlags-Ges. m. b. H., 1940. 95 p.

Plummer, W. C. [and] R. A. Young. Sales finance companies and their credit pratices [New York]. National bureau of economic research, [1940]. xiii, 298 p. (National bureau of economic research, New York. Financial research program. Studies in consumer instalment financing, nº 2).

Por, O. Politica economico-sociale in Italia, anno XVII-XVIII. Firenze, G. C. Sansoni, 1940. 189 p. (Collana di studi economico-sociali).

Reischle, H. und W. Saure. Der Reichsnährstand; Aufbau, Aufgaben und Bedeutung, 3. Aufl. Berlin, Reichsnährstand Verlags-Ges. m. b. H., 1940. 272 p.

Rochester, A. Why farmers are poor the agricultural crisis in the United States. New York, International publishers, [1940]. 317 p.

Roncoroni, E. Alcuni insetti. Varese, Tip. Arcivescovile dell'Addolorata, 1940. 92 p. (Consorzio ortofrutticoltura, sezione del C. P. P. A. per la lotta contro il maggiolino nella Provincia di Varese).

Rothmann, M. Die Getreidewirtschaft Rumäniens. Berlin. Reichsnährstand Verlags-Ges. m. b. H., 1940. 196 p. (Schriftenreihe der Studiengesellschaft für bäuerliche Rechts- und Wirtschaftsordnung. (Studiengesellschaft für Nationalökonomie). Reihe B. Deutsche und fremdvölkische Landwirtschaft, Bd. 6.)

Rovesti, G. La ginestra e le sue utilizzazioni; prodotti e sottoprodotti. [Roma], Federazione nazionale fascista degli industriali dei prodotti chimici, [1940]. 212 p.

Walter, H. Die Farmwirtschaft in Deutsch-Südwestafrika; ihre biologischen Grundlagen Berlin, P. Parey, 1940. 3 v. (Deutsche Forscherarbeit in Kolonie und Ausland, hrsg. von Konrad Meyer Hft. 1-3). v. 1. Das Klima und die Fragen der Klimaänderung in ihrer Bedeutung für die Weidewirtschaft. 1940. 90 p. v. 2. Die Weidewirtschaft 1940. 98 p. v. 3. Ackerbau und Obstkultur. 1940. 150 p.

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